

## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 :

F16B 33/02

A1

(11) International Publication Number:

WO 99/05421

(43) International Publication Date:

4 February 1999 (04.02.99)

(21) International Application Number: PCT/GB98/02233

(22) International Filing Date: 27 July 1998 (27.07.98)

(30) Priority Data:

9715779.6

26 July 1997 (26.07.97)

GB

(71) Applicant (for all designated States except US): UNIFIX LIMITED [GB/GB]; Bridge House, Grove Lane, Smethwick, Warley, West Midlands B66 2SA (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): GLOVER, Frank [GB/GB]; 2 Velvetstone Cottage, Westwood Lane, Hatfield, Nr. Leominster, Herefordshire UR6 0SQ (GB).

(74) Agent: BARKER BRETTELL; 138 Hagley Road, Edgbaston, Birmingham B16 9PW (GB).

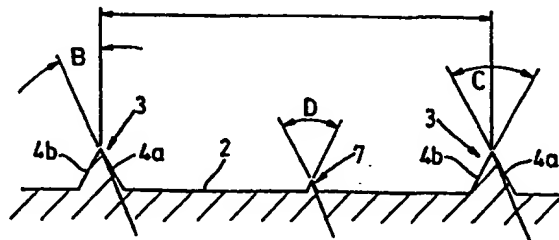
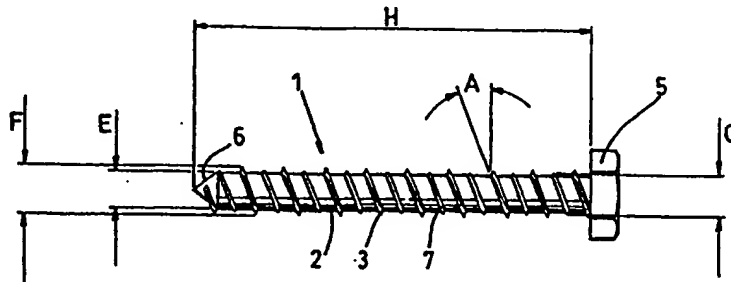
(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LY, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

## Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: IMPROVED FIXING ANCHOR



EL 967947524

## (57) Abstract

A threaded fastener (1) is disclosed for anchoring into a substrate comprising a core portion (2) having at least one helical continuous thread provided along a substantial portion of the length of the core, in which the helical thread has a substantially V-shaped cross section defining two flanks (4a, 4b) which subtend an angle of between substantially 60° and 90°, and the thread has a helix angle of between approximately 20° and 45°. The crest of the thread may be flattened, and the fastener (1) is especially suited to anchoring to a masonry substrate.